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[PDF] Neural network-based diesel **engine** emissions prediction using in-cylinder ...

ML Traver, RJ Atkinson, CM Atkinson - SAE transactions, 1999 - cerw.wvu.edu

... the accuracy of the networks and to provide the software with a **means** to determine ... The method shows promise for producing a **virtual** sensor suite capable of predicting accurate ... for engines being operated in circumstances other than those in a transient **engine testing** cell. ...

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Merging **virtual** objects with the real world: Seeing ultrasound imagery within the ...

M Bajura, H Fuchs, R Ohbuchi - ACM SIGGRAPH Computer ..., 1992 - portal.acm.org

... a "transducer transformation" and a "camera transformation," are needed to calibrate our **test** system ... superimposition to show, for instance, the location of special parts within an **engine**. ... we hope to encourage applications not only of "**virtual** environments"' (imaginary worlds), but ...

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[PDF] Gamebots: A 3D **virtual** world **test**-bed for multi-agent research

R Adobbati, AN Marshall, A Scholer, S Tejada, ... - Proceedings of the ..., 2001 - Citeseer

... all game logic and object interaction under Unreal Tournament while the main game **engine** handles the ... with the bots is an effective method for researchers to evaluate, diagnose and **test** their bots ... In this 3D **virtual** environment, the game can be paused at any point and the ...

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Evaluation of the effects of frame time variation on VR task performance

B Watson, V Spaulding, N ... - ... of VRAIS'96, 1996 - doi.ieeecomputersociety.org

... Success of the placement task was measured by **testing** the location of the target object: it had to be completely ... of 50 ~ sqrt(2) x 30 = 8 ms), which we cannot consistently teach on our Crimson Reality **Engine** with the ... Certainly **virtual** applications ate moving towards significantly ...

Cited by 47 - Related articles - All 24 versions

Real-time computerized **engine** analyzer using multiple analog-to-digital ...

S Mueller, S Meyers, C Lambach, G Stern, J ... - US Patent ..., 1996 - Google Patents

... capability of expansion to perform other **engine test** functions by adding other **test** modules. ... analog sample and **display** circuitry (the ability to provide high speed, **virtual real-time** ... is: 1. An apparatus

for monitoring waveforms of an internal combustion **engine**, comprising: **means** ...
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[PDF] Digital **Testing** in the Context of Digital Engineering" Functional **Virtual** Proto-...
RR Ryan - VDI BERICHTE, 1999 - redam.nl
... Figure 15. Template-based **Engine** Mount Design System Page 17. ... To simultaneously reduce
the overall development **time**, it is necessary to automate the **virtual** prototyping process. ...
development engineers, analysts, and **test** engineers. Although this cooperation may not be ...
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Virtual graphics processor for embedded real time display systems
TG Dennison, JG Fisher, SE Lindsley, TA... - US Patent ... , 1997 - Google Patents
... system may be used, however, the executable code must be 45 qualified through a **testing**
procedure to ... interface (video library) 28, and a graphics logic unit (also known as a screen **engine**)
30. ... The output of the **virtual** graphics processor is a **series** of calls to the image control ...
Cited by 9 - Related articles - All 6 versions

[PDF] ...and emissions prediction system for on-board diagnostics and **engine** ...
CM Atkinson, TW Long, EL ... - PROGRESS IN ..., 1998 - atkinsonllc.com
... The excellent generalization capabilities achieved through on-line learning **means** that the **engine**
control system ... PROOF OF CONCEPT **VIRTUAL** SENSOR DEMONSTRATION - II ... the measured
speed and power charac- teristics of an arbitrary transient **engine** **test** cycle used ...
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[PDF] ... and **testing** of a fingertip tactile **display** for interaction with **virtual** and ...
NJM Patrick - 1990 - dspace.mit.edu
... Reference input to a control system RE Remote Environment t Student **t-test** value Tic ... providing
visual information through all of the cockpit windows; audio information of **engine** noise and ... For
instance, a person interacting with a **virtual** sculpture would be more overwhelmed by ...
Cited by 14 - Related articles - All 2 versions

A testbed for studying and choosing predictive tracking algorithms in **virtual** ...
JJ LaViola - Proceedings of the workshop on **Virtual** environments ..., 2003 - portal.acm.org
... make a subclass off of the Predictor abstract base class which contains the **virtual** prepare and ...
the results for both tabular and graphical **display** according to the partic- ular **test** run. ... The Signal
Analysis compo- nent also connects to the MATLAB **engine** so it can utilize MATLAB's ...
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[PDF] A Matlab-based modeling and **simulation** package for electric and hybrid ...
KL Butler, M Ehsani, P Kamath - IEEE transactions on ..., 1999 - psaisserver.tamu.edu
... A table is included which compares performance parameters such as fuel consumption and
emissions for each **simulation** study. ... The power plant is shown in Fig. 4. Table I shows the **engine**
and vehicle specifications utilized to design the conventional drive train. ...
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tamu.edu [PDF]

[PDF] ... integrated, high fidelity, **engine**-in-vehicle **simulation** of the international ...
DN Assanis, ZS Filipi, S Gravante, D ... - SAE ..., 2000 - me.engin.umich.edu
... hence the resistance load felt by the **engine**. ... constant vehicle speed on varying terrain to complex
speed/load cycles, such as the ones used for **emission** testing ... As men- tioned earlier, the
simulation is configured as a feed-for- ward system, where everything starts with the driver ...
Cited by 93 - Related articles - View as HTML - EL Direct - All 16 versions

umich.edu [PDF]

[PDF] A Multi-Megavoxel Volumetric 3-D **Display** System for Distributed ...
GE Favalora, DM Hall, M Giovinco, J Napoli, RK ... - from the" Application of ... 2001 - Citeseer
... As well-documented in [2], volumetric displays create 3-D imagery via the **emission** or relaying ...
Fig. 5 is a photograph of the projection **engine**, projection optics (inside the housing), and the ...
A software-based **simulation** of the volumetric **display** was created as an element of the ...
Cited by 11 - Related articles - View as HTML - EL Direct - All 2 versions

psu.edu [PDF]

[PDF] Updated **emissions** from ocean shipping
JJ Corbett, HW Koehler - J. Geophys. Res. 2003 - ocean.udel.edu
... or that very high resolution be used in classifying vessel types and **engine** characteristics into ...
Using Monte- Carlo **simulation**, we evaluated the impact of simultaneously varying each parameter ...
triangle distribu- tions on the estimates for fuel consumption and **emissions** for each ...
Cited by 199 - Related articles - View as HTML - All 11 versions

udel.edu [PDF]

... charging on vehicle speed and its implications for assessing vehicle **emissions**
SD Beevers, DC Carslaw - Atmospheric Environment, 2005 - Elsevier
... **emissions** over any drive cycle and aims to provide a more realistic **simulation** by incorporating ...
to calculate **engine** speed and torque, which is then combined with **engine** maps to ... nature of speed

changes can create unrealistic **emissions** 'spikes' in the vehicle **emission** data. ...
Cited by 15 - Related articles - All 5 versions

Simulation of NOx and ultrafine particles in a street canyon in Stockholm, Sweden
L Gidhagen, C Johansson, J Langner, G ... - Atmospheric ..., 2004 - Elsevier
...The **simulation** covers workdays during the period 11 September–28 November, 2002 ... This
difference in **engine** load may have a great impact on the **emissions**, eg uphill driving on ... in a traffic
inventory set up for Tehran, Iran (World Bank study "Tehran **Emission** Reduction Project ...
Cited by 35 - Related articles - All 4 versions

[PDF] Design studies of a **series** hybrid heavy-duty transit bus using V-ELPH 2.01
Z Rahman, KL Butler, M Ensani - IEEE Vehicular Technology ..., 1999 - psaserver.tamu.edu
... of our result in figure 8 and discuss some of its key features regarding the **simulation**. The **engine**
emissions presented in the figure were calculated using the empirical equations provided by
Prabhakar [8 ... and 80% respectively, which is close to what we 400 600 **Time** in seconds ...
Cited by 10 - Related articles - All 5 versions

[PDF] Reduction of Heavy-Duty Diesel **Engine Emission** and Fuel Economy With ...
T Hiroyasu, H Hiroyasu, M Miki - 2004 - is.doshisha.ac.jp
... **emission** regulations, current research is aimed at the reduction of soot and nitric oxide (NOx)
emissions, while maintaining ... The baseline condition is shown in Table 2. For this **engine**, fuel
injection shape, boost pressure, and ... In this **simulation**, two-pulse injection was performed ...
Cited by 13 - Related articles - View as HTML - All 4 versions

ATEMIS—A tool for calculating air traffic exhaust **emissions** and its application
MT Kaivoda, R Feller - Science of the Total Environment, The, 1995 - Elsevier
... **Time series** like seasonal fluctuations may be interesting as well as the split ... References [1] R.
Feller, **Simulation** and Berechnung der Schadstoffemissionen der zivilen ... [3] International Civil
Aviation Organisation (ICAO), Committee on Aircraft **Engine Emissions** (CAEE), 2nd ...
Cited by 5 - Related articles - All 4 versions

[PDF] Development of car drive cycle for **simulation** of **emissions** and fuel economy
M Montazeri-Gh, M Naghizadeh ... - ... of 15th European Simulation ..., 2003 - scs-europe.net
... In Japan the 10-15 mode cycle is currently used for **emission** certification and ... duty vehicles and
the 13-mode cycle for the testing of heavy duty **engines**. Proceedings 15th European **Simulation**
Symposium Alexander Verbraeck. Vlatka Hlupic (Eds.) (c) SCS European Council ...
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diesel engine graphical simulation display target [Search]

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A Wavelet Synthesis Technique for Creating Realistic Virtual Environment Sounds
TP Caudell - MIT Press

... Figure 1 **graphically** illustrates the wavelet transform ... The air- plane **engine** sound can be converted into a car sound by de-emphasizing the approximation coefficients ... is important for being able to reliably control the sound synthesis from a virtual envi- ronment **simulation** system ...

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VEHICLE BATTERY STATE OF CHARGE INDICATOR
J Palladino - 2008 - freepatentsonline.com

... 12 is a **graphical** illustration of determination of the state of recovery of the **target** battery. ... The torque versus current cranking requirements for large **diesel engines** are well known over a broad ... Cranking time until **engine** start is measured and thus the rate at which current was ...

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[PDF] Energy and emission aspects
RTM Smokers, AJJ Dijkhuizen, RG Winkel, R Kost, R ... - 130.202.177.102

... But when eg a **diesel engine** is used, the fact that it is only used near or at its optimum efficiency point will ... This is a Topic Report in which **simulation results** are presented, obtained with ADVISOR, of the energy consumption of various hybrid ... **Engine** Model 1NZ-FXE 5E-FE ECA ...

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130.202.177.102 [PDF]

[PDF] Process **simulation** to make personalisation economically viable
CM Eckert, DC Wynn, PJ Clarkson, S Black - 2008 - www-edc.eng.cam.ac.uk

... **flexibility** is achieved through a plat- form with would include a common chassis. **engine** and power ... For each car different ver- sions are offered, eg, a petrol and a **diesel** model might ... Table 1 Summary of the **simulation results** shown in Figure 5. **Values** indicate cost in designer ...

Related articles - View as HTML - All 5 versions

cam.ac.uk [PDF]

[BOOK] Smart Driver Training **Simulation**: Save Money, Prevent.
WD Kappler - 2008 - books.google.com

... For example, Knie (1994) believes this accounts for the success of the **diesel engine**, which is a piston **engine** ... accounts, he believes, for the failure of the NSU/Wankel project (not a piston **engine**), which may ... But which are the basic issues and models behind driving **simulation**? ...

Cited by 2 - Related articles - Library Search - All 3 versions

[PDF] 4. TITLE AND SUBTITLE The Reduction of NOx Emissions from Marine ...
HB Urbach, DT Knauss, BL Wallace, JH Wasser, MR ... - dtic.mil
... Thus, the **graphical data** indicate that the optimum amount of water is quite small ... **Simulation of** Recuperated Gas Turbines with WFI The depression of the compressor discharge ... 3. Wasser, J. and R. Perry, "**Diesel Engine** NOx Control: Selective Catalytic Reduction and Methanol ...
Related articles

ERDC MSRC Resource Fall 2007
ENGINEER RESEARCH AND DEVELOPMENT ... 2007 - oai.dtic.mil
... **Diesel** Fuel and High Performance Computing By Mike Gough ... "The Gemini Euler Solver for the Coupled **Simulation** on Underwater ... connected to each other in a three dimen sional (3-D) torus using a Hyper Transport link with a dedicated Cray SeaStar communications **engine**. ...
View as HTML

... hypothesis of a critical dose for overload tumor induction by diesel soot and carbon ...
W Stöber, JL Mauderly - Inhalation Toxicology, 1994 - informahealthcare.com
... of the POCK model were consistent with previous POCK representations of **diesel** soot and ... Depending on aerosol material and rat strain, common critical **values** of this dose relating to ... tumor induc- tion were postulated and calculated by using the model-inferred **simulation** data. ...
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... SYSTEM FOR MEASUREMENT AND SIMULATION IN DISTRIBUTED CONTROL ...
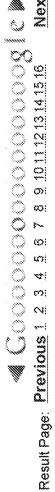LB Fredriksson - US Patent App. 11/420,684, 2006 - Google Patents
... be divided in general into the following functions: [0014] 1. **Graphical display** function [0015 ... in block diagram form, a measure- ment, analysis and **simulation** arrangement in ... Two-Stage Turbocharging-3K-Warner's New Charging System for Commercial **Diesel Engines**" by gradu ...
Cited by 2 - Related articles - BL Direct - All 2 versions

[PDF] Diesel hybridization and emissions.
M Pasquier, G Monnet - 2004 - ipd.anl.gov
... Page 14. 12/1 **Diesel** Hybridization and Emissions 12/122 ... The CVT ratio allows keeping the **engine** at a **target** operating speed. On the other hand, **simulation results** show that CVT have lower efficiency than manual transmission. ...
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